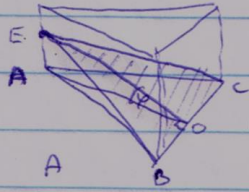
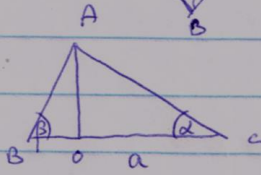


3.97
6

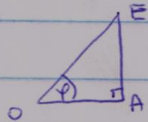


$BC \perp EO$ ۽ $BC \perp AO$, انجلی 3 وید
($\triangle ABC$ ۽ $\triangle AEO$) \perp BC ۽ $\triangle AEO$ \perp EO \perp BC



$$S_{ABC} = \frac{a^2 \sin \beta \sin \alpha}{2 \sin(\alpha + \beta)} = \frac{BC \cdot AO}{2}$$

$$AO = \frac{a \sin \alpha \sin \beta}{\sin(\alpha + \beta)}$$



$$EA = AO \tan \phi = \frac{a \sin \alpha \sin \beta \tan \phi}{\sin(\alpha + \beta)}$$

$$V = \frac{1}{3} S_{ABC} \cdot EA = \frac{1}{3} \cdot \frac{a^3 \sin^2 \alpha \sin^2 \beta \tan \phi}{2 \sin^2(\alpha + \beta)}$$